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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/027,839	12/19/2001	Jan Suumaki	324-010671-US(PAR)	2559
2512	7590	10/17/2005		
PERMAN & GREEN 425 POST ROAD FAIRFIELD, CT 06824			EXAMINER HALIYUR, VENKATESH N	
			ART UNIT	PAPER NUMBER
			2664	

DATE MAILED: 10/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/027,839	SUUMAKI ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Venkatesh Haliyur	2664	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 12/19/2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☐ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>2 pages</u>   | 6) <input type="checkbox"/> Other: _____                                    |

### DETAILED ACTION

1. Claims 1 - 10 have been examined.

#### ***Priority***

2. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. FINLAND 20002890 12/29/2000.

#### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hannu et al [US Pub: US 2002/0057715] in view of Hamalainen et al [US Pat: 6,434,133].

Regarding claims 1,7, Hannu et al in their invention of "Communication system and method utilizing request-reply communication patterns for data compression", disclosed a method for configuring, storing, updating, modifying and transmitting compression/decompression dictionary characteristic parameters through transmitted and received messages between terminal and a mobile entity of a UMTS or a cellular system in a packet-switched (IP) network

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environment [Fig 1,2, paragraphs, 0005 - 00011 & 0015 – 0019 & 0027-0029].

But, Hannu et al fails to disclose configuring the use of a compression method for each simultaneous radio bearer on the basis of the modified characteristics parameters. However, Hamalainen et al in their invention of "Subnetwork dependent convergence protocol for a mobile radio network" disclosed a method for configuring different protocol compression/decompression algorithm through the exchange of parameters between several entities simultaneously in a GSM network [Fig 3, column 2, lines 51-67, column 3, lines1-55].

Therefore it would have been obvious for one of ordinary skill in the art at the time that the invention was made to use the teachings of Hamalainen et al the method of configuring different protocol compression/decompression algorithm through the exchange of parameters between several entities simultaneously in the system of Hannu et al to configure the use of a compression method for each simultaneous radio bearer on the basis of the modified characteristics parameters.

Regarding claims 2,8 Hannu et al, disclosed a mechanism for not performing updates of modified compression/decompression dictionary until a communication entity has been established [paragraph 0043] but fails to disclose transmitting modified characteristics parameters before a radio bearer is established. However, Hamalainen et al disclosed that each compression/decompression algorithms defined are negotiated between the entities prior to the compression and transmission of protocol and user data [column 5, lines 46-58].

Therefore it would have been obvious for one of ordinary skill in the art at the time that the invention was made to use the teachings of Hamalainen et al the method of negotiating compression/decompression algorithms between the entities prior to the compression and transmission of protocol and user data in the system of Hannu et al for transmitting modified characteristics parameters to a functional entity comprised by the radio network before a radio bearer is established.

Regarding claims 3,9, Hannu et al disclosed a method for transmitting and receiving the default and modified compression/decompression dictionary characteristic parameters during an established communication session between the entities [paragraph 0030], but Hannu et al fails to disclose reconfiguring the use of the compression methods of the simultaneous radio bearers of the terminal on the basis of the modified characteristics parameters without releasing the radio bearers. However, Hamalainen et al disclosed a method for configuring different protocol compression/decompression algorithm through the exchange of parameters between several entities simultaneously in a GSM network [Fig 3, column 2, lines 51-67, column 3, lines1-55].

Therefore it would have been obvious for one of ordinary skill in the art at the time that the invention was made to use the teachings of Hamalainen et al the method of configuring different protocol compression/decompression algorithm through the exchange of parameters between several entities simultaneously in the system of Hannu et al to receive new settings for the use of a compression method specified in the radio network on the basis of the modified

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characteristics parameters, and reconfigure the settings of the use of the compression methods of the simultaneous radio bearers of the terminal without releasing the radio bearers.

Regarding claims 4-6,10 Hannu et al disclosed a method of message flow during a communication session between entities indicating available protocol and data compression/decompression algorithms for packet-switched (IP) UMTS systems at any instant [Fig 2, paragraphs 0011,0027,0032], but Hannu et al fails to disclose the message comprising a selection parameter for the header field compression method for data packets supported by the convergence protocol of the terminal. However, Hamalainen et al disclosed a method for one or more compression control message, specifying a set of characteristics parameters for selecting the compression/decompression algorithm supported by the convergence protocol of the terminal [column 4, lines 4-18,lines 42-67,column 5, lines 1-4].

Therefore it would have been obvious for one of ordinary skill in the art at the time that the invention was made to use the teachings of Hamalainen et al the method of specifying a set of characteristics parameters for selecting the compression/decompression algorithm in the system of Hannu et al for specifying the characteristics parameters in the information message comprising a selection parameter for the header field and data compression methods for data packets supported by the convergence protocol of the terminal.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art in reference here are Hannu et al and Hamalainen et al.

4. Any inquiry concerning this communication or earlier communications should be directed to the attention to Venkatesh Haliyur whose phone number is 571-272-8616. The examiner can normally be reached on Monday-Friday from 9:00AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached @ (571)-272-3134. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2600 or fax to 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

  
**Ajit Patel**  
**Primary Examiner**